Curriculum Vitae

Mircea Mihălcică

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OCCUPATIONAL FIELD

Academic Education

WORK EXPERIENCE

Period	Position held	Main activities and responsibilities	Employer	Type of business or sector
2021– Present time	Associate Professor	Taught the following subjects: Numerical Methods (lecture + lab) in Romanian and English, Mechanical Vibrations (lecture + lab + seminar) in Romanian and English, Mechanics (seminar), Computer Programming (lecture and lab), Control of Dynamic Systems (lecture and lab).	Transilvania University of Brașov, www.unitbv.ro	Academic Education
2014– 2021	Lecturer	Taught the following subjects: Numerical Methods (lecture + lab) in Romanian and English, Mechanical Vibrations (lecture + lab + seminar) in Romanian and English, Mechanics (seminar), Computer Programming (lecture and lab).	Transilvania University of Brașov, www.unitbv.ro	Academic Education
2012– 2014	Scientific Researcher	Member of the project team "Development of components made of advanced composite materials with applications in the automotive, civil and military industries", funded by Structural Funds, Operational Programme for Increasing Economic Competitiveness, R&D partnerships between universities and companies. Contract no. 1132 / SMIS code: 35420.	S.C. INAR S.A., Brașov	Research

2008–2011	PhD Student	Full-time PhD student with scholarship at the Faculty of Mechanical Engineering. Thesis: "Contributions to the identification of individuals using motion analysis", supervised by Prof. Dr. Eng. Sorin Vlase.	Transilvania University of Brașov	Research
2000–2008	Editor & Head of Communications and Internet Department	Worked as editor and head of the Communications and Internet Department at CHIP Computer & Communications magazine (the leading IT press publication in Romania at the time).	3D Media Communications SRL (formerly Vogel Burda Communications Romania), Brașov	Journalism / Department Management

EDUCATION AND TRAINING

Period	Qualification / Diploma awarded	Institution
2014–2015	Postdoctoral studies in Mechanical Engineering – Portable system for human motion analysis with applications in sports and medicine	Transilvania University of Brașov
2008–2011	PhD in Mechanical Engineering – Thesis: Contributions to the identification of individuals through motion analysis (Supervisor: Prof. Dr. Eng. Sorin Vlase)	Transilvania University of Brașov
2000–2001	Master's Degree in Mechanical Structures Dynamics	Transilvania University of Brașov
1995–2000	Engineer – Faculty of Mechanical Engineering, Mechatronics specialization	Transilvania University of Brașov
1991–1995	Assistant Programmer Analyst	Brașov Computer Science High School

PERSONAL SKILLS

Language: Romanian

Other language(s):

English – C2 (Listening, Reading, Speaking, Writing) – CAE (Cambridge English: Advanced), grade A

French – B1 (Listening, Reading), A2 (Speaking, Writing)

Social skills and competences:

Good communication skills acquired through experience as a journalist and academic teacher.

Organisational skills and competences:

Leadership – Managed a team of 3 people for the development of the www.chip.ro website; Head of the Communications Department at CHIP magazine.

Technical skills and competences:

Strong knowledge of publishing processes for print and online magazines.

Computer skills and competences:

Extensive knowledge of the IT field (hardware/software/programming/communications and internet), gained through experience as an IT journalist.

Other skills and competences:

Experience in producing both technical and non-technical written materials, developed through journalism and academic work.

Driving licence: Category B

ADDITIONAL INFORMATION

Research interests: Motion analysis, biomechanics, composite materials, vibrations.

Project member:

• "Development of components made of advanced composite materials with applications in the automotive, civil and military industries" (2012–2014), funded by Structural Funds, Operational Programme – Contract no. 1132 / SMIS code: 35420

• MINOVIS (PN-III-P2-2.1-PED-2019-2148): Innovative models of violins acoustically and aesthetically comparable to heritage violins – Contract no. 568PED/2020

• ACADIA (PN-III-P4-PCE-2021-0885): Qualitative, dynamic and acoustic analysis of anisotropic systems with modified interfaces – Contract no. PCE61/2022

Between April–July 2010, participated in a biomechanics project at the Department of Computer Science, Anglia Ruskin University, Cambridge & Chelmsford, UK. Result: European studies diploma, grade A.

Academic achievements:

• PhD thesis: "Contributions to the identification of individuals through motion analysis" (2008–2011)

• Habilitation in Mechanical Engineering

• 3 books published at national publishing houses as sole author

• 6 book chapters published at national level

• 26 ISI-indexed papers, h-index 8

• 2 patent proposals (under evaluation)

Assoc. Prof. Dr. Eng. Mircea Mihălcică
                              Signature:

January 1, 2025